

(57) ABSTRACT

Capacitive voltage multiplier for generating voltage pulses, preferably up to 100 V, that are higher than the supply voltage for displays, non-volatile memories and corresponding units especially in small electronic devices, such as handheld telecommunication terminals or corresponding devices, wherein the multiplier comprises a switching capacitor circuit (21) provided with capacitors and switches for charging the capacitors in parallel and discharging them in series in order to deliver a high voltage pulse. The multiplier further comprises a diode chain circuit (22) consisting of a diode-chain and pumping capacitors for delivering high voltage current. The inventive system allows the output high voltage to be switched on and held with little longtime drop and with small switching losses and able to supply a load current without significant ripple. Additionally switching the high voltage on and off does not result in efficiency loss.

(Fig.11)